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10 May 1951

Astivities in the Field of Isotope Separation at the Physical

June 1950 to January 1951

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About June 1950 Halle (H 52/D 92) University was requested, probably by Karlshorst, to de research work in the field of isotops separation. This project was to be conducted on the basis of the thermal diffusion method developed by Clusius. Professor Mosnoh, Chief of the Institute for Applied Physics, was in diarge of the project. (1) Spectrally pure nitrogene was to be used for preliminary tests of the research equipment.

344.

The research equipment, composed of six sets of separating tubes and one set of partitying tubes, was completed in early Jenuary 1951. The apparatus was three meters high and 20 to 3 seters wide. It was made of glass and was mounted on the wall. (3) Figure for the construction of the set came from Marburg (I 51/0 74) University, (4) and (2)

It was learned that a mass spectrograph is being constructed by the VEB Telefunion (Mationalized Plant) in Erfort (M 51/J 36), the only enterprise in the Soviet Zone to produce base spectrographs. (5) The device under construction was provided with double Scensing lenses, like the mass spectrographs for isotope separation being used in the United States. Its construction had been completed to the extent, that the adjustment of the apparatus was to be started in March 1951.

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(1) Professor Dector Phil Counther Mosnoh is Chief of the Institute for applied Physics and of the Phytographic Institute at Halls University.

(2) The information was confirmed by an untested source, who also stated that most of the personnel engaged in this project were advanced statents. All professors and their assistants ordered to work in this field feared that, in case of good results, they night be drafted to work in the U.S.S.L. on wrentum isotope securation.

(3) For a rough shotch of a set of asymmeting tubes, see Amon. The primitive device repreduced on the attached shotch is believed to be a demonstration model to explain to students the basical functioning of thermal diffusions, rather than a complicated apparatus required for uranium isotope separation.

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This assumption is supported by the following facts: The spectrum telescope developed by Clusius requires long tubes with a small inside diameter. The reported length of three meters is, therefore, considered too small, and the dismeter of lib-on should probably read lib-on. Furthermore, the process of separating uranium isotopes is performed with high pressure and not with low pressure, and glass tubes council be used with UP; (uranium hexafluoride).

(h) This may refer to Professor Doctor Engineer Wilhelm Walcher, Chief of the

Physical Institute at Markung Daiversity, Profespor Walcher worked in the

field of isotope separation with miss spectrographs.

The former Telefinden Plant in intert specialized on the production of tabes and recently started the production of small radio sets. It is believed inprobable that this plant should have specialized on the manufacture of mass epartrographs for isotope separation. Therefore, the apparatus being constrepted in Erfort is believed to be a device for the photographic presentation of mass spectra, rather that a mass spectrograph. This photographic apparatus is provided with ducals focusing leases and was developed by A.J. Dampeter, J. Mattensh, and R. Herneg in 1931, and 1935.

one sketch en ditto.

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Amnex

Legend

- A. Pressure gauge, pressure 1073.
- B. Cooling water.
- C. Cooling jacket.
- D. Constantan heating wire, O.E am in diameter.
- E. Regulating valves.
- F. Tapping point.

The tubes were made of glass and had dismeter of about 10-om. The sketch shows one of the six separating units. The seventh set was provided with a separating tube, 12 meter lang, for the elimination of impurities.

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German Democratic Republic PRODUCTION DIFFICULTIES AT AGIL PLANT (2 pp; This report consists of a photostated letter, dated 16 February 1951, written by VBB (People-Owned Enterprise) Agil Plant in Berlin-Oberschoenweide to the Ministry for Machine-Building in Berlin. The letter states that the plant is confronted with the necessity of curtailing the production of welding electrodes, and that it will probably have to effect a temporary reduction in personnel so as to avoid increasing the cost price of its products. The main reason for the anticipated curtailment is said to be difficulty in procuring welding-core wire Schweisskerndrachten). Although the plant took emergency steps and ordered this material from foreign countries (for example, Czechoslovakia) as well as domestic sources (Hennigsdorf Plant), these measures will; according to the letter, result in full utilization of plant capacity, and, therefore, workers will in all probability have to be laid off for the months of March and april The letter constitutes a final attempt to avoid the temporary layoffs by appealing to the Ministry for Machine-Building for aid. Mention is made of the fact that the 19 plan could not be fulfilled occuse of shortages of material, and that the blant is of fronted with the same situation for 1951, although presumably for the 1st quarter only It is pointed out that the plant prepared for the new Five-Year Plan by providing for an extensive expansion of the production program, and that valuable capacity for the production of welding electrodes, regarded as a point for emphasis within the CDM, will be wasted if the plant does not receive aid as soon as possible.	50		SECRET	-	25)
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